

What is claimed is:

1. A moisture-crosslinking hotmelt adhesive for the immediate further processing of bonded substrates, comprising reaction products of difunctional and/or polyfunctional (poly)isocyanates with hydroxyl polyesters formed from polyols and dicarboxylic acids or derivatives thereof suitable for condensation reactions, wherein at least one linear aliphatic dicarboxylic acid having from 13 to 22 methylene groups is used as dicarboxylic acid.
2. A moisture-crosslinking hotmelt adhesive as claimed in claim 1, containing 1-99% by weight of the polyesters.
3. A moisture-crosslinking hotmelt adhesive as claimed in claim 1, containing 1-49% by weight of the polyesters.
4. A moisture-crosslinking hotmelt adhesive as claimed in claim 1, containing 1-35% by weight of the polyesters.
5. A moisture-crosslinking hotmelt adhesive as claimed in any one of the preceding claims, wherein octadecanedioic acid is used as dicarboxylic acid.
6. A moisture-crosslinking hotmelt adhesive as claimed in any one of the preceding claims, wherein hexadecanedioic acid is used as dicarboxylic acid.
7. A moisture-crosslinking hotmelt adhesive as claimed in any one of the preceding claims, wherein the hydroxyl polyesters possess a melting point of 30°C-125°C.
8. A moisture-crosslinking hotmelt adhesive as claimed in any one of the preceding claims, wherein the hydroxyl polyesters possess a melting point of 65°C-115°C.
9. A moisture-crosslinking hotmelt adhesive as claimed in any one of the preceding claims, wherein the hydroxyl polyesters possess a melting point of 70°C-110°C

10. A moisture-crosslinking hotmelt adhesive as claimed in any one of the preceding claims, wherein up to 95 mol% of the linear aliphatic dicarboxylic acid having from 13 to 22 methylene groups has been replaced by dicarboxylic acids having shorter carbon chains.
5
11. A moisture-crosslinking hotmelt adhesive as claimed in any one of the preceding claims, wherein up to 80 mol% of the linear aliphatic dicarboxylic acid having from 13 to 22 methylene groups has been replaced by dicarboxylic acids having shorter carbon chains.
- 10 12. A moisture-crosslinking hotmelt adhesive as claimed in any one of the preceding claims, wherein up to 50 mol% of the linear aliphatic dicarboxylic acid having from 13 to 22 methylene groups has been replaced by dicarboxylic acids having shorter carbon chains.
13. A moisture-crosslinking hotmelt adhesive as claimed in any one of the preceding claims, 15 wherein up to 95 mol% of the linear aliphatic dicarboxylic acid having from 13 to 22 methylene groups has been replaced by aromatic dicarboxylic acids.
14. A moisture-crosslinking hotmelt adhesive as claimed in any one of the preceding claims, wherein up to 80 mol% of the linear aliphatic dicarboxylic acid having from 13 to 22 20 methylene groups has been replaced by aromatic dicarboxylic acids.
15. A moisture-crosslinking hotmelt adhesive as claimed in any one of the preceding claims, wherein up to 50 mol% of the linear aliphatic dicarboxylic acid having from 13 to 22 methylene groups has been replaced by aromatic dicarboxylic acids.
25
16. A moisture-crosslinking hotmelt adhesive as claimed in any one of the preceding claims, wherein the hydroxyl polyesters possess a melting point of 30°C-140°C if they contain aromatic dicarboxylic acids as comonomers.
- 30 17. A process for producing a moisture-crosslinking hotmelt adhesive for the immediate further processing of bonded substrates, comprising reaction products of difunctional

and/or polyfunctional (poly)isocyanates with hydroxyl polyesters formed from polyols and dicarboxylic acids or derivatives thereof suitable for condensation reactions, wherein at least one linear aliphatic dicarboxylic acid having from 13 to 22 methylene groups is used as dicarboxylic acid.

5

18. A process for producing a moisture-crosslinking hotmelt adhesive as claimed in any one of the preceding claims, wherein octadecanedioic acid is used as dicarboxylic acid.

10 19. A process for producing a moisture-crosslinking hotmelt adhesive as claimed in any one of the preceding claims, wherein hexadecanedioic acid is used as dicarboxylic acid.

20. A process for producing a moisture-crosslinking hotmelt adhesive as claimed in any one of the preceding claims, wherein the hydroxyl polyesters possess a melting point of 30°C-125°C.

15

21. A process for producing a moisture-crosslinking hotmelt adhesive as claimed in any one of the preceding claims, wherein the hydroxyl polyesters possess a melting point of 65°C-115°C.

20 22. A process for producing a moisture-crosslinking hotmelt adhesive as claimed in any one of the preceding claims, wherein the hydroxyl polyesters possess a melting point of 70°C-110°C.

25 23. A process for producing a moisture-crosslinking hotmelt adhesive as claimed in any one of the preceding claims, wherein up to 95 mol% of the linear aliphatic dicarboxylic acid having from 13 to 22 methylene groups has been replaced by dicarboxylic acids having shorter carbon chains.

30 24. A process for producing a moisture-crosslinking hotmelt adhesive as claimed in any one of the preceding claims, wherein up to 80 mol% of the linear aliphatic dicarboxylic acid

having from 13 to 22 methylene groups has been replaced by dicarboxylic acids having shorter carbon chains.

25. A process for producing a moisture-crosslinking hotmelt adhesive as claimed in any one of
5 the preceding claims, wherein up to 50 mol% of the linear aliphatic dicarboxylic acid

having from 13 to 22 methylene groups has been replaced by dicarboxylic acids having shorter carbon chains.

26. A process for producing a moisture-crosslinking hotmelt adhesive as claimed in any one of
10 the preceding claims, wherein up to 95 mol% of the linear aliphatic dicarboxylic acid

having from 13 to 22 methylene groups has been replaced by aromatic dicarboxylic acids.

27. A process for producing a moisture-crosslinking hotmelt adhesive as claimed in any one of
15 the preceding claims, wherein up to 80 mol% of the linear aliphatic dicarboxylic acid

having from 13 to 22 methylene groups has been replaced by aromatic dicarboxylic acids.

28. A process for producing a moisture-crosslinking hotmelt adhesive as claimed in any one of
the preceding claims, wherein up to 50 mol% of the linear aliphatic dicarboxylic acid

having from 13 to 22 methylene groups has been replaced by aromatic dicarboxylic acids.

20

29. A process for producing a moisture-crosslinking hotmelt adhesive as claimed in any one of
the preceding claims, wherein the hydroxyl polyesters possess a melting point of 30°C-
140°C if they contain aromatic dicarboxylic acids as comonomers.

25 30. The use of a moisture-crosslinking hotmelt adhesive as claimed or set forth in any one of
the preceding claims for applications with immediate further processing of the bonded
substrates.